Panasonic

Operating Instructions

Network Camera Recorder

Model No. **BB-HNP11A**

Please read this manual before using and save this manual for future reference.

Main Features

Recording or Playing Images with Audio

This software records or plays images with audio from the camera*1 (see page 59). Since you can record images with audio, recorded images become impressive. For example, you can use the images with audio for training employee after you record your shop scene. This software can also record multiple cameras simultaneously.

*1 Audio supported cameras are BB-HCM311A, etc. See Panasonic Network Camera support website at **http://panasonic.co.jp/pcc/products/en/netwkcam/** for details.

Advanced Motion Detection Recording

Motion detection recording is improved from BB-HNP60. You can set a time (1—60 seconds) to record before or after motion detection (see page 35). You can check the detail condition when the motion was detected.

Advanced Timer Recording and Search Ability

You can set a keyword in timer recording (see page 56). You can manage images by keyword. 10 settings can be set in timer recording for each camera. Additionally, you can search images by time, recording method (such as timer recording and motion detection recording), or keyword (see page 63).

Other Features

- **Layout Feature of Operation Window (see page 39 to page 41)**
  You can change size or location of camera list or operation bar for the camera, or you can display them separately.
- **Camera List (see page 66)**
  The registered cameras can be listed, and the camera preview size can be set in 6 levels.
- **Recording Capacity Limit (see page 34)**
  If you set the maximum value, you can limit the recording capacity.
- **Automatic Backup (see page 26)**
  This software starts backing up images at the set time.

System Requirements for your PC

Your PC (Personal Computer) and network must meet the following technical specifications for this software to work properly.

Items	Description	
Operating System	Microsoft® Windows® XP Professional Edition Microsoft® Windows® 2000 (Service Pack 2 or later)	
Web Browser	Internet Explorer 6.0 or later	
File System	NTFS (NT File System) is recommended.	
Audio[*1]	Audio output feature (Speaker or Headphones)	
Hardware Specification	Connecting 10 Cameras	Connecting 4 Cameras
	CPU: Pentium® 4 3 GHz or higher, or compatible processor Memory: 512 MB or higher	CPU: Pentium 4 1.8 GHz or higher, or compatible processor Memory: 256 MB or higher

[*1] Using the camera with audio.

Notes

- The information above is based on 640 x 480 resolution, favor clarity, motion detection recording, recording interval: Not Specify, recording capacity limited settings to decide your PC specification. The information may change depending on the system or composition.
- Change the hard disk capacity considering file size shown on page 23.

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Table of Contents

1 Product Introduction 6

1.1 Included Accessories 6

1.2 Important Information 7

1.2.1 Audio and Video Recording Notice 7

1.2.2 Security Cautions 7

1.3 End-User License Agreement 8

1.4 Looking at Installation Procedure 11

1.5 Installing This Software 12

1.5.1 Modifying or Deleting This Software 18

1.6 Starting or Closing This Software 19

1.6.1 Starting This Software 19

1.6.2 Closing This Software 20

1.7 Performing License Registration 21

1.7.1 Registering a New License 21

2 Software Operation 23

2.1 Selecting a Folder to Save Images 23

2.2 Automatically Backing up Recorded Images 26

2.3 Using a Proxy Server 28

2.4 Registering the Camera 30

2.4.1 Creating New Camera 30

2.4.2 Editing Camera Information 38

2.5 Network Camera Recorder Window 39

2.5.1 Monitoring Page 45

2.5.2 Recorded Image Page 46

2.5.3 Timer List Page 47

2.6 Monitoring the Camera 48

2.6.1 Monitoring the Camera 48

2.6.2 Using Operation Bar 49

2.6.3 Using Preset Buttons 52

2.7 Recording the Image 53

2.7.1 Manually Recording the Image 53

2.7.2 Motion Detection Recording 55

2.7.3 Timer Recording 56

2.8 Playing the Recorded Images 59

2.8.1 Playing the Recorded Images 59

2.8.2 Searching the Recorded Images 63

2.9 Using Camera List 66
2.10 Enabling or Disabling the Cameras 68
2.11 Deleting the Registered Cameras 69
2.12 Converting the Recorded Images 70
2.12.1 Converting the Recorded Images to JPEG files 70
2.13 Other Features 72
2.13.1 Importing the Camera Information 72
2.13.2 Exporting the Camera Information 72
2.13.3 Copying the Recorded Images 73
2.13.4 Changing the Keyword of the Recorded Images 73
2.13.5 Deleting the Recorded Images 74
2.14 Error Message List 75
2.15 Troubleshooting 93
2.16 Default Setting List 96
Index 98

1 Product Introduction

1.1 Included Accessories

The following items are provided.

- CD-ROM ..... 1 pc.
- Operating Instructions (This Manual) ..... 1 pc.
- Registration code stickers ..... 1 set (3 pcs.)
- End-User License Agreement ..... 1 pc.

Note

User registration requires registration code shown on registration code stickers. Affix the stickers to the case, the front or the back of Operating. Instructions to remember registration code and license key.

CD-ROM Notice

- Do not scratch, smudge, write or label either CD-ROM surfaces. It may become unreadable because of a scratch.
- Do not touch the CD-ROM surface and avoid leaving fingerprints on it. It may become unreadable because of dust.
- Do not place the CD-ROM in any place where it will be subjected to direct sunlight or high temperature such as around a heater. CD-ROM may become unreadable because of change in shape.
- Do not throw or bend CD-ROM. CD-ROM may become unreadable because of a scratch or change in shape.
- Do not play this CD-ROM in an audio CD player. Ear-splitting volume may damage its speakers.

1.2 Important Information

1.2.1 Audio and Video Recording Notice

PLEASE NOTE that under certain circumstances, audio/video recording may be PROHIBITED by law. This software should be used only in compliance with all applicable federal, state and local statutes.

1.2.2 Security Cautions

When using this software, take appropriate measures to avoid the following security breaches.

- Leaks of private information via this software
- Illegal use of this software by a third party
- Interference or suspension of the use of this product by a third party

Take the following measures to avoid security breaches:

- To prevent malicious attack to your PC or recorded images, keep newly updating the installed software on your PC such as operating system, web browser, antivirus software or Network Camera Recorder. (Perform the version update to intensify the security).
- If you receive data from the Internet, perform the scan for malicious program or removal of the computer virus.
- You are responsible for this product's user information such as registered camera information and recorded images. This information should not be made available to any third parties outside the user group.

Panasonic Communications Co., Ltd.

1.3 End-User License Agreement

THIS IS A LEGAL AGREEMENT BETWEEN YOU AND PANASONIC COMMUNICATIONS CO., LTD. ("PANASONIC") WITH RESPECT TO THE PANASONIC NETWORK CAMERA RECORDER, RETAIL VERSION SOFTWARE ("SOFTWARE"). CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT PRIOR TO INSTALLING THE SOFTWARE. THE SOFTWARE INCLUDES A PROGRAM LICENSED UNDER THE GNU LESSER GENERAL PUBLIC LICENSE ("LGPL PROGRAM"). AS FOR LGPL PROGRAM, GNU LESSER GENERAL PUBLIC LICENSE SET FORTH IN THE FILE "COPYING" UNDER THE DIRECTORY NAMED "SOURCE" WHICH CAN BE FOUND IN THIS PROGRAM SHALL BE APPLIED. INSTALLING THE SOFTWARE INDICATES YOUR ACCEPTANCE OF THESE TERMS AND CONDITIONS.

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2. LICENSE:

(1) You may use the SOFTWARE solely for the purpose of recording and processing images from one or more PANASONIC Network Cameras which are compatible with the SOFTWARE.

(2) You may make a copy of the SOFTWARE for the use defined in subparagraph (1) above, or for internal back-up purpose only.

(3) You may transfer your rights under this License Agreement on a permanent basis, provided that you transfer this Agreement, all copies of the SOFTWARE, all related documentation and your PANASONIC Network Camera(s), and the recipient thereof agrees to the terms of this Agreement.

3. RESTRICTIONS:

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This license is effective until terminated. You may terminate this Agreement at any time by destroying the SOFTWARE and related documentation and all copies thereof. This license will be terminated if you fail to comply with any term or condition of this Agreement. Upon such termination, you agree to destroy the SOFTWARE, all copies thereof and related documentation.

5. LIMITED WARRANTY:

PANASONIC warrants to you that the SOFTWARE will perform substantially in accordance with its documentation for the ninety (90) day period following your receipt of the SOFTWARE.

To make a warranty claim, you must return the SOFTWARE to the location where you obtained it along with proof of purchase within such ninety (90) day period. If the SOFTWARE does not perform substantially in accordance with its documentation, the entire liability of PANASONIC and your exclusive remedy shall be limited to either, at PANASONIC'S option, the replacement of the SOFTWARE or the refund of the license fee you paid for the SOFTWARE. THE FOREGOING STATES THE SOLE AND EXCLUSIVE REMEDIES FOR PANASONIC'S BREACH OF WARRANTY. THE LIMITED WARRANTY SET FORTH IN THIS PARAGRAPH GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

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1.4 Looking at Installation Procedure

You must perform the following steps to use this software.

Read the End-User License Agreement (see page 8).
You cannot install this software if you disagree.
(The legal agreement is required when installing this software.)

Install this software (see page 12).

Perform the license registration (see page 21).
Perform the license registration to use this software.
The attached registration code stickers are required to perform license registration.

Select the folder to save images (see page 23).

Configure the camera (see page 30).

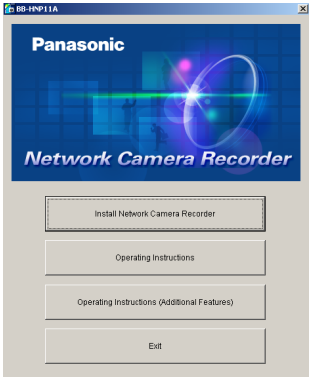
Operate recording and monitoring the camera.

1.5 Installing This Software

It is recommended that you create an administrator account user on your PC to securely manage recorded images. After logging in as the set user, install this software.

1. Insert the CD-ROM to the CD-ROM drive.

- Installation Selection window automatically appears.



Notes

- If Installation Selection window does not appear, open the CD-ROM and double-click "autorun.exe" file.
- Adobe® Reader® must be installed on your PC.
  It can be downloaded without charge from the Adobe website.

2. Click [Install Network Camera Recorder].

- If this software has been installed, the following window is displayed. Install this software after removing this software at [Start]→[Settings]→[Control Panel]→[Add/Remove Programs] window.

Windows Installer
Another version of this product is already installed. Installation of this version cannot continue. To configure or remove the existing version of this product, use Add/Remove Programs on the Control Panel.
OK

Note

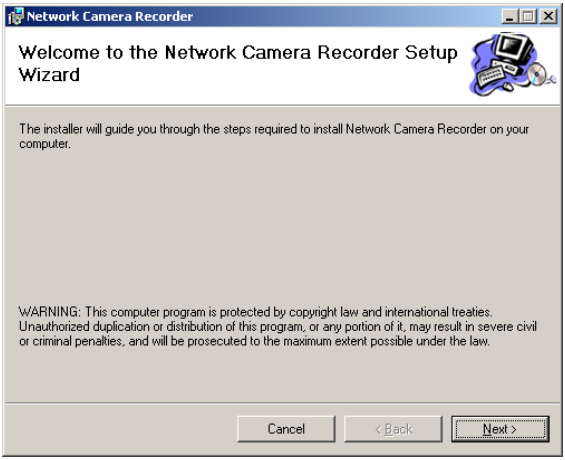
If you do not log in as an administrator account user, you cannot install this software and the following windows will be displayed. Log in as an administrator.

Network Camera Recorder
If you do not log in as an administrator, you cannot install this software. Log in as an administrator to install.
OK

or

Install Program As Other User
Some programs will not install correctly if you do not have administrative privileges on this computer.
If you know the password to an administrative account, you can use that account to install the program.
Run the program as MYCOMPUTER\Limited User
Run the program as the following user:
User name:
Password:
Always run install programs as MYCOMPUTER\Limited User
OK
Cancel

- Installation window appears.


Network Camera Recorder
Welcome to the Network Camera Recorder Setup Wizard
The installer will guide you through the steps required to install Network Camera Recorder on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

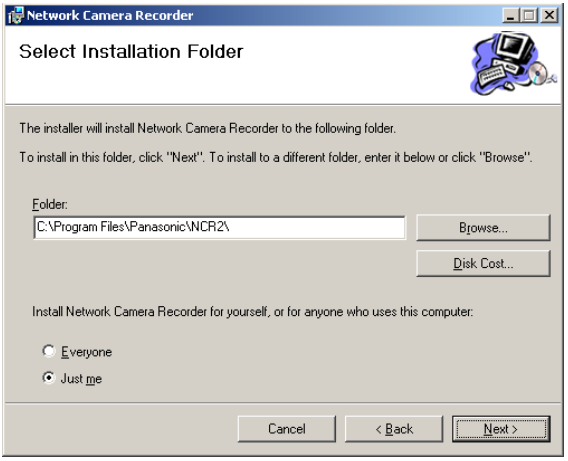
3. Click [Next>].

- License Agreement window appears.

Network Camera Recorder
License Agreement
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
End-User License Agreement
THIS IS A LEGAL AGREEMENT BETWEEN YOU AND PANASONIC COMMUNICATIONS CO., LTD. ("PANASONIC") WITH RESPECT TO THE PANASONIC NETWORK CAMERA RECORDER, RETAIL VERSION SOFTWARE ("SOFTWARE"). CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT PRIOR TO INSTALLING THE SOFTWARE. THE SOFTWARE INCLUDES A PROGRAM LICENSED UNDER THE GNU LESSER GENERAL PUBLIC
I Do Not Agree
I Agree
Cancel
< Back
Next >

4. Check [I Agree] and click [Next>].

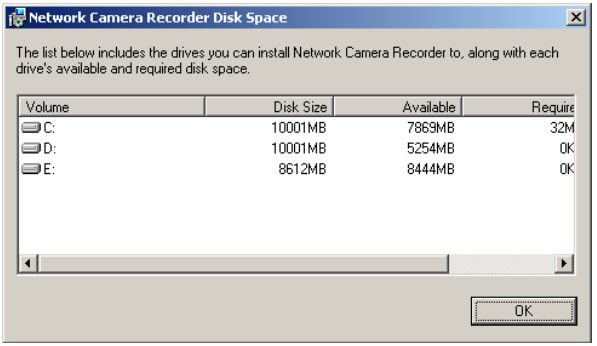
- Choose Destination Location window appears.


Network Camera Recorder
Select Installation Folder
The installer will install Network Camera Recorder to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\Panasonic\NCR2\
Browse...
Disk Cost...
Install Network Camera Recorder for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

Notes

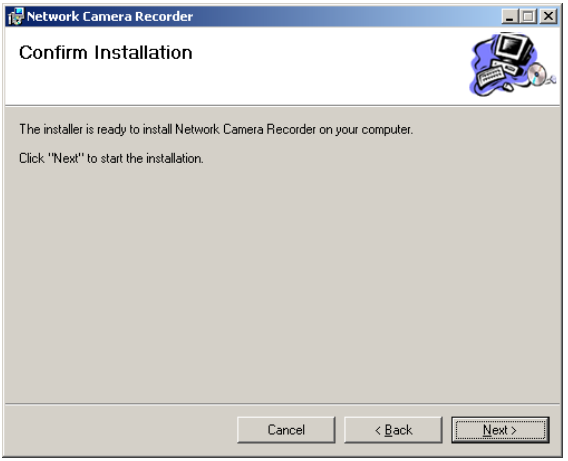
- To securely manage recorded images, selecting [Just me] is recommended.
- [Everyone] means users having an administrator account.

- Click [Browse...] to change the destination folder.
- The destination must have more than 200 MB free capacity.
- If you click [Disk Cost...], installable drives, each drive disk size and free capacity are displayed.



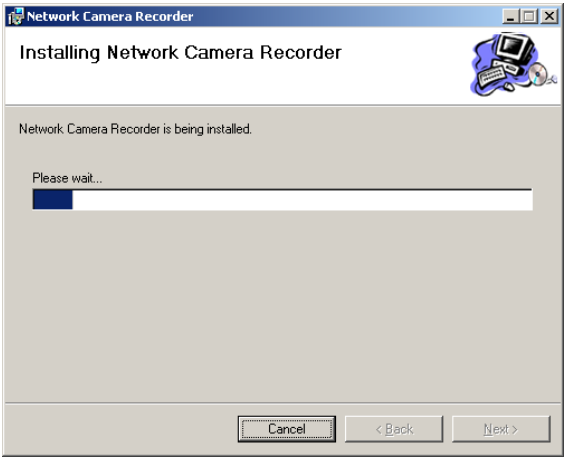
5. Select the destination folder, and click [Next>].

- Installation Confirmation window is displayed.

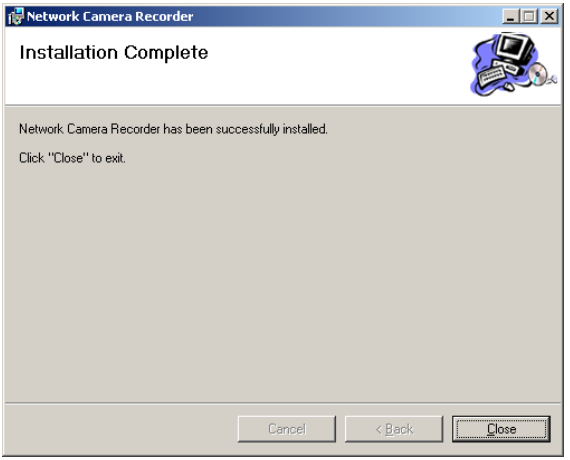

Network Camera Recorder
Confirm Installation
The installer is ready to install Network Camera Recorder on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

6. Click [Next>].

- This software starts installation.



- After the installation, Installation Complete window is displayed.



7. Click [Close].

- is displayed on the desktop.
- After the restart, is displayed on the system tray.

  → lights red during recording.

Notes

- If the operation window is started but is displayed, this software is working. Timer recording is also working.
- To close this software, right-click and select [Exit]. The button will be deleted from the system tray.

1.5.1 Modifying or Deleting This Software

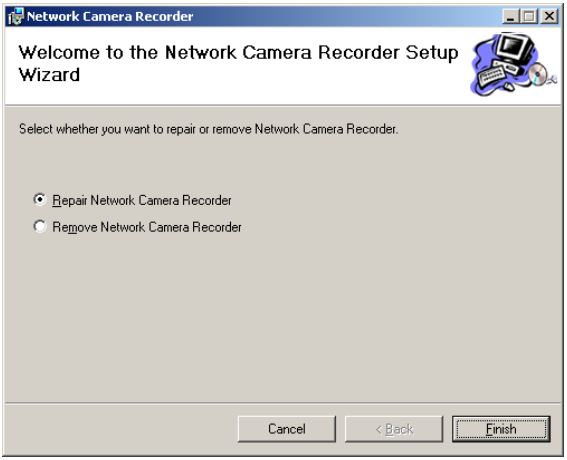
To modify or delete this software, follow the steps below.

1. Insert the CD-ROM to the CD-ROM drive.

- Installation Selection window automatically appears.
- If Installation Selection window does not appear, double-click "setup.exe" file on the CD-ROM.

2. Click [Install Network Camera].

- If this software have been installed, the following window is displayed.


Network Camera Recorder
Welcome to the Network Camera Recorder Setup Wizard
Select whether you want to repair or remove Network Camera Recorder.
Repair Network Camera Recorder
Remove Network Camera Recorder
Cancel
< Back
Finish

3. Check [Repair Network Camera Recorder] or [Remove Network Camera Recorder], and click [Finish].

- If the modification or deletion is complete, the confirmation window is displayed.

Note

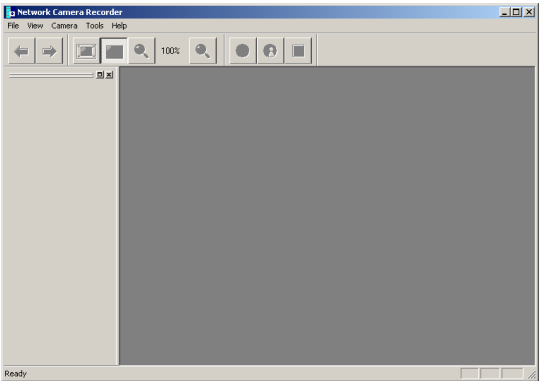
If you delete this software, the camera settings and recorded images are not deleted. To delete them, manually delete NCR2 folder at the destination.

1.6 Starting or Closing This Software

1.6.1 Starting This Software

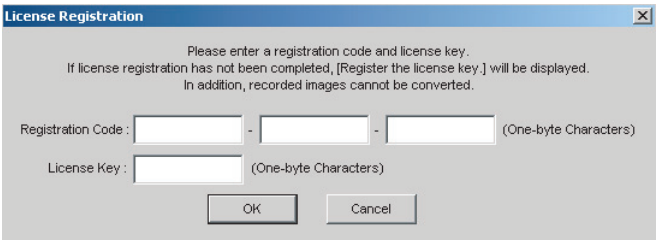
Double-click on the desktop to start this software.

- Initial window of this software is displayed.



Notes

- These softwares cannot work at the same time. Use only a software.
- This software can be started from the program menus. Clicking "ncr2.exe" file at the destination also starts this software.
- If the license is not registered, the License Registration window is displayed. Register a license by following the procedure on page 21.



1.6.2 Closing This Software

Click [File]→[Exit] on the menu bar.

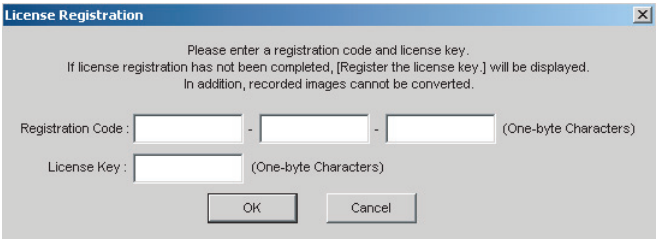
1.7 Performing License Registration

If the license is not registered, the License Registration window is displayed. Click [Issue a license key on online registration] to register a license.
Follow the steps below to register a license.

1.7.1 Registering a New License

1. Display the License Registration window.

- If the license is not registered, the License Registration window is displayed.
- You can also display the window by selecting [Help]→[License Registration].



2. Enter the supplied registration code and license key, and click [OK].

- The registration code and license key are included on the attached registration code stickers.
- Characters are case sensitive.
- The following window is displayed.

3. Click [OK].

Note

If the following window is displayed, the registration code or license key is incorrect. Confirm them, and enter them again.

Network Camera Recorder
The registration information was incorrect.
Check the registration code and license key and try again.
OK

Note

If the registration is complete, [License Registration] on the menu bar is grayed out.

Note

The registration code and license key cannot be reissued even if they are lost. Please keep them secure.

2 Software Operation

2.1 Selecting a Folder to Save Images

This software records camera images to the hard disk on your PC. The folder can be changed. After the camera is registered, destination folders are automatically created in the selected folder. The recorded images are saved in the destination folders.

- If the destination folder is not selected, the recorded images are saved into the destination folders at the destination folder where Network Camera Recorder is installed.
- You can change the destination folder to another folder or external hard disk drives.

Notes

- The folder must have more than 100 MB free capacity.
- The level of the folder-hierarchy depth must be within 6 to prevent the system from getting unstable.
- The recorded images in the destination folder are displayed on the screen. If you change the destination folder, the recorded images in the former folder are not displayed.
- File sizes of recorded images listed below can be used as a baseline. (1 frame size)

Resolution	Items	Favor Clarity	Standard	Favor Motion
640 x 480	File Size	About 50 KB	About 33 KB	About 20 KB
320 x 240	File Size	About 25 KB	About 16 KB	About 8 KB
160 x 120	File Size	About 7 KB	About 5 KB	About 3 KB

- Recorded capacity can be calculated by
  Size (KB) x Frame Rate (frames per second) x time (second).

  E.g.

  640 x 480 resolution, Favor Clarity and 12 frames per second for an hour settings

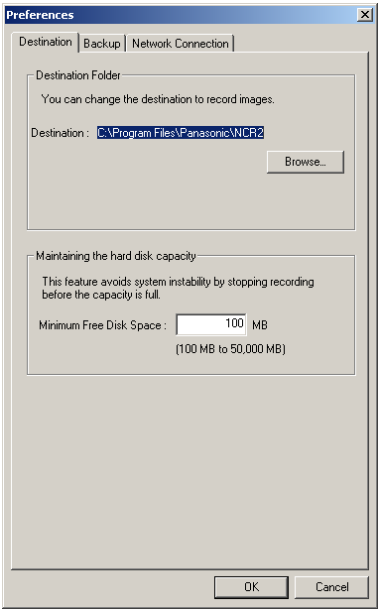
  50 (KB) x 12 (fps) x 3,600 (s) = 2,160,000 (About 2.06 GB)

  If the audio is attached, add 4 KB per second.

  2,160,000 (KB) + 4 (KB) x 3,600 (s) = 2,174,400 (About 2.08 GB)

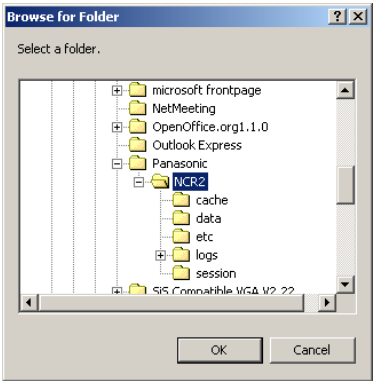
1. Start this software and select [Tools]→[Preferences]→[Destination Folder] on the menu bar.

- The destination folder page is displayed.



2. Click [Browse...].

- The selecting folder page is displayed.



3. Select the destination, and click [OK] .

- Create the folder in advance.

4. Set the hard disk free space.

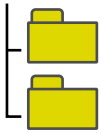
- Set enough capacity (100 MB or greater) as your destination folder to prevent the system from getting unstable.

5. Click [OK].

Notes

- Recorded images are saved in the following folder.

NCR2 ---------- Destination folder



data ---------- Folder to store recorded images

index ---------- Folder to store data to search recorded images

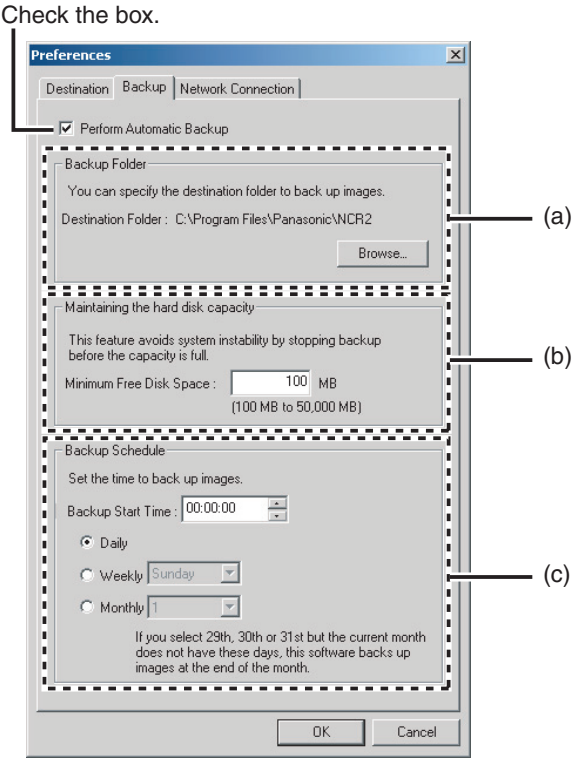
- If the image cannot be recorded, error message is displayed.
- **Do not manually delete, move or change any files in the index folder or data folder.**

2.2 Automatically Backing up Recorded Images

Recorded images can be backed up automatically at the specified time.

1. Select [Tools]→[Preferences]→[Backup] on the menu bar.

- The backup setting page is displayed.


Check the box.
Preferences
Destination
Backup
Network Connection
Perform Automatic Backup
Backup Folder
You can specify the destination folder to back up images.
Destination Folder : C:\Program Files\Panasonic\NCR2
Browse...
Maintaining the hard disk capacity
This feature avoids system instability by stopping backup before the capacity is full.
Minimum Free Disk Space : 100 MB
(100 MB to 50,000 MB)
Backup Schedule
Set the time to back up images.
Backup Start Time : 00:00:00
Daily
Weekly Sunday
Monthly 1
If you select 29th, 30th or 31st but the current month does not have these days, this software backs up images at the end of the month.
OK
Cancel
(a)
(b)
(c)

2. Set the parameters, and click [OK].

Parameters

(a) Select your destination folder for backup. See page 24 for how to access the backup page.
- Create the folder in advance.
- The level of the folder-hierarchy depth must be within 6 to prevent the system from getting unstable.

(b) Set the hard disk free space to stop backing up before the system becomes full.
- Set enough capacity (100 MB or greater) as your destination folder to prevent the system from getting unstable.

(c) Set the date and time to execute backup.

Notes

- Backup feature automatically creates the last dated folder, and copies the recorded images and data for search in the destination folder.
- Backup feature backs up only newly-recorded images after the last backup was executed.
- If the capacity has reached the limit, the backup is stopped, and error message is displayed (see page 91).
- The backup images can be searched. Select [Backup Image] on the search page (see page 63).
- The recording operation of this software may be delayed during backup.
- If images are recorded during backup, the recorded images will be backed up next time.
- **Do not manually delete, move or change any files in the index folder or data folder in the backup folder.**

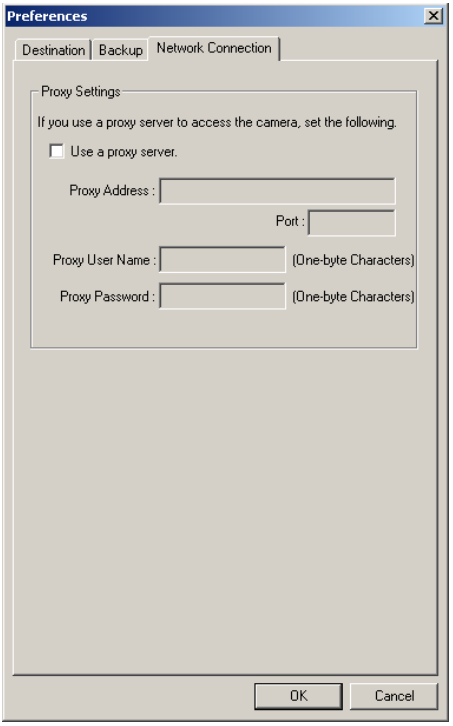
2.3 Using a Proxy Server

You need to set the following settings to monitor the camera on the Internet you using a proxy server. (You cannot connect to the camera without the proxy settings.)

If you do not use a proxy server, this setting is not required.

1. Select [Tools]→[Preferences]→[Network Connection] on the menu bar.

- The proxy setting page is displayed.



2. Check [Use a proxy server], set the parameters, and click [OK].

Setting	Description
Proxy Address and Port	Enter the IP address of proxy server and port number. Enter them after asking your administrator. • Enter the alphanumeric characters. (Enter only the numeric character for port number.)
Proxy User Name and Proxy Password	Enter the user name and password for the proxy server, if required. Enter them after asking your administrator. • Enter the alphanumeric characters.

2.4 Registering the Camera

Before you can view or record images, each camera must be configured on this software.

- If you change the destination folder from the default folder of this software, select a folder to save images in advance (see page 23).
- The camera information can be imported and exported (see page 72).

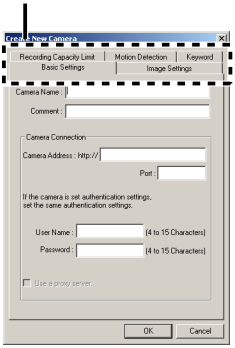
2.4.1 Creating New Camera

1. Select [Camera]→[Create New Camera] on the menu bar.

- You can create a camera on the menu displayed by right-clicking on the camera list (see page 66).
- The create new camera page is displayed.

Page Selection Tab

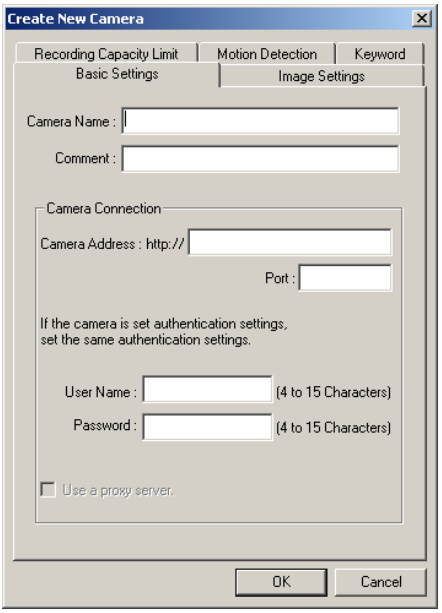
Basic Settings	:	Displays the setup page for the camera name and IP address (see page 31).
Image Settings	:	Displays the setup page for the image size and recording method (see page 33).
Recording Capacity Limit	:	Displays the setup page for the recording capacity limit value (see page 34).
Motion Detection	:	Displays the setup page for the motion detection recording (see page 35).
Keyword	:	Displays the setup page for recorded image keyword (see page 37).



2. Set the parameters and click [OK].

- The camera preview is displayed on the camera list.

Basic Settings Page



Setting	Description
Camera Name	Enter the camera name (mandatory). The camera name is displayed on the screen (see page 45). • Maximum 250 characters.
Comment	Enter the information of the camera such as a location. The comment is displayed on the screen (see page 45). • Maximum 128 characters.
Camera Address	Enter the IP address (or domain name) (mandatory). • Enter the alphanumeric characters.
Port	Enter the port number. • When port number is 80 (default), you do not need to enter port number. • Enter the numeric characters.

Setting	Description
User Name/ Password	If you set security setting (authentication setting), enter administrator user name and password of the camera. • Enter the alphanumeric characters. • 4 to 15 characters. • Password is saved in encryption.
Use a proxy server	If you enable the proxy settings (see page 28), [Use a proxy server] is enabled. If the camera is using a proxy server, check [Use a proxy server].

Note

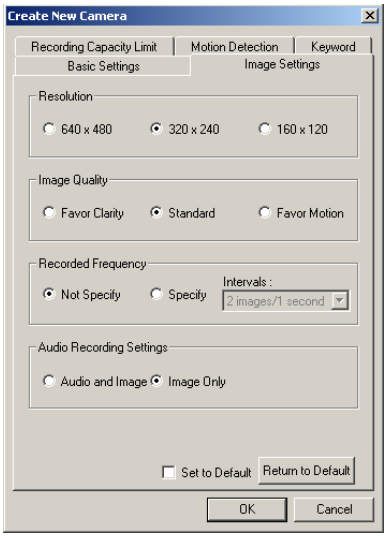
If this software cannot access the camera, the following message is displayed. Confirm the camera setting and try again.

Network Camera Recorder
Connection to the camera cannot be confirmed.
Check the Address, Port Number, and Proxy settings, and try again.
OK

Note

The number of connections from software to the camera is limited. Up to 3 connections can be established with the camera.

Image Settings Page



Setting	Description
Resolution	Select 640 x 480, 320 x 240 (default) or 160 x 120.
Image Quality	Select Favor Clarity, Standard (default) or Favor Motion.
Recorded Frequency	Set the interval to record images. [Not Specify*1, Specify*2 or Setting Intervals*3]
Recording Setting	Select to record the image with audio or only images.

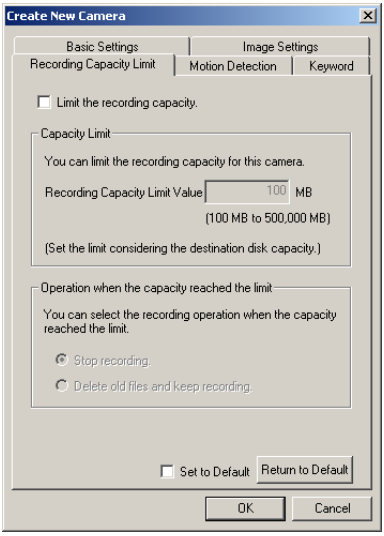
*1 If you record images as they are set on the camera, set to [Not Specify]. Images are recorded as the camera sends images through its max. bandwidth.
*2 If you select [Audio and Image], you cannot specify the intervals.
*3 Due to the network environment, you may not monitor the camera at the set intervals or max. bandwidth.

- Default is displayed when you register a camera.
- If you can change default by checking [Set to Default] and clicking [OK], the current settings become as a default.
- If you click [Return to Default], the settings return to a default.

Note

If the camera disables setting changes, resolution or image quality settings may not work properly.

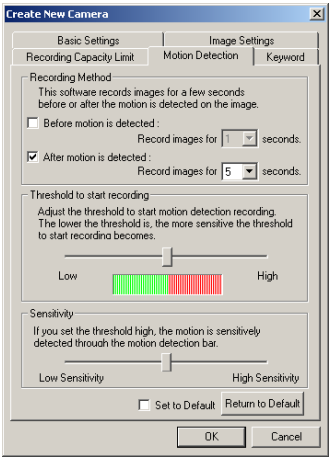
Recording Capacity Limit Page



Setting	Description
Limit Recording Capacity	To limit the capacity, check [Limit the recording capacity] and set the capacity. Select [Stop recording] or [Delete old images and keep recording] (by 1 minute) when the capacity is full.

- Default is displayed when you register a camera.
- If you change default by checking [Set to Default] and clicking [OK], the current settings become as a default.
- If you click [Return to Default], the settings return to a default.
- If you change the capacity to a smaller value than the current capacity, this software deletes old images. (E.g. if you change the capacity to 200 MB when you recorded images up to 250 MB, 50 MB old images are deleted.)

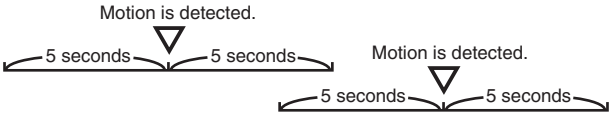
Motion Detection Page


Create New Camera
Basic Settings
Image Settings
Recording Capacity Limit
Motion Detection
Keyword
Recording Method
This software records images for a few seconds before or after the motion is detected on the image.
Before motion is detected :
Record images for 1 seconds.
After motion is detected :
Record images for 5 seconds.
Threshold to start recording
Adjust the threshold to start motion detection recording. The lower the threshold is, the more sensitive the threshold to start recording becomes.
Low
High
Sensitivity
If you set the threshold high, the motion is sensitively detected through the motion detection bar.
Low Sensitivity
High Sensitivity
Set to Default
Return to Default
OK
Cancel

Setting	Description
Recording Method	Record images in the time period before or after motion detection.
Threshold	Adjust the threshold to start recording. If the threshold is set low, this software sensitively detects changes.
Sensitivity	If you set sensitivity high, amplitude of motion detection bar gets jumpy (see page 45).

E.g. If the recording time overlaps other settings, a continuous image is recorded.

- If you set to record images before or after 5-second period and another motion is detected, 1 image is recorded.



- Default is displayed when you register a camera.
- If you can change default by checking [Set to Default] and clicking [OK], the current settings become as a default.
- If you click [Return to Default], the settings return to a default.

Notes

- Clicking on the toolbar buttons starts recording, and clicking stops recording. If you are clicking or while you set recording time period before or after the motion detection, motion detection recording does not work.
- If you try to capture a exact image when the motion is detected, do not check the boxes of before motion detection and after motion detection.
- Motion detection level is changed depending on resolution, image quality, object situation and network environment. Confirm the level by performing motion detection recording.

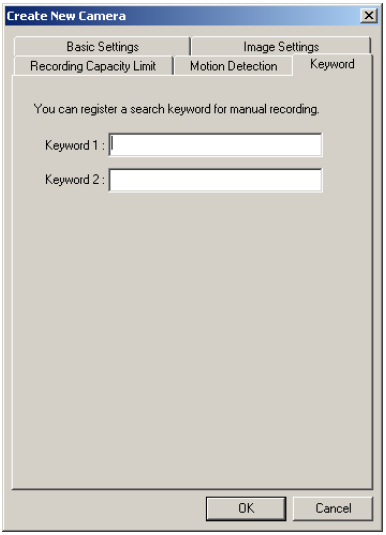
On the monitoring page, clicking displays motion detection bar.

Motion Detection Bar

The threshold is the border between green and red. If the level exceeds the threshold, the motion detection recording starts.

Indicator lights red during motion detection recording.

Keyword Page

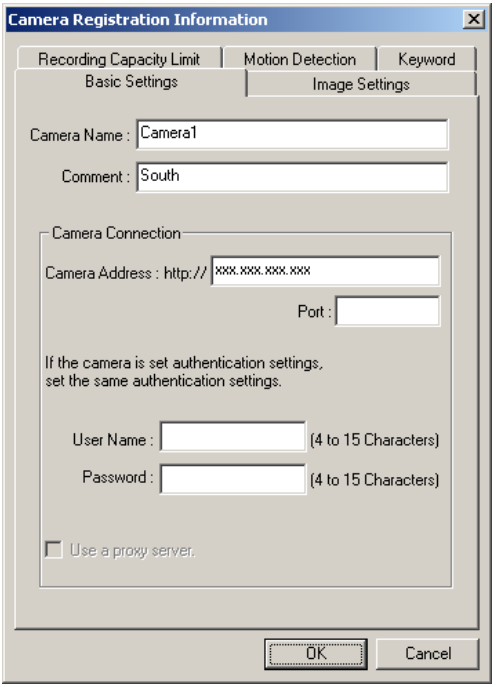


Setting	Description
Keyword 1/ Keyword 2	Put a keyword to manually-recorded images. • 2 keywords (keyword 1/keyword 2) can be set. • If you set a keyword, you can search recorded images by it (see page 63).

2.4.2 Editing Camera Information

1. Select [Camera]→[Edit Current Camera] on the menu bar.

- You can change camera information on the menu displayed by right-clicking on the camera list (see page 66).
- The change camera information page is displayed.



2. Set the parameters and click [OK].

- See page 31 to page 37 for details about parameters.

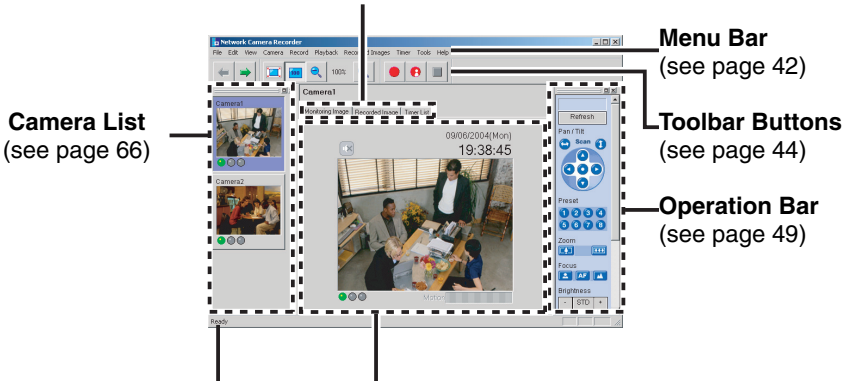
2.5 Network Camera Recorder Window

Page Selection tab

Monitoring Image: Displays the current image (see page 45).

Recorded Image: Displays the recorded image list and playback image (see page 46).

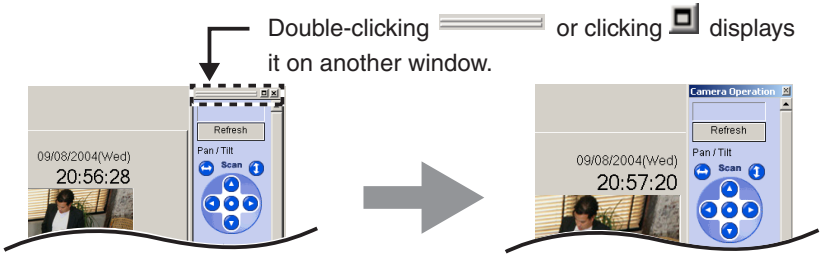
Timer List: Displays the timer list (see page 47).



Window Display

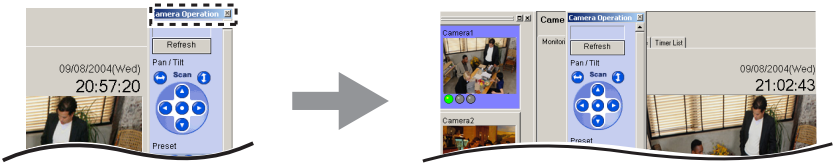
The camera list and operation bar can be displayed on another window, or change the layout.

E.g. Displaying the operation bar on another window

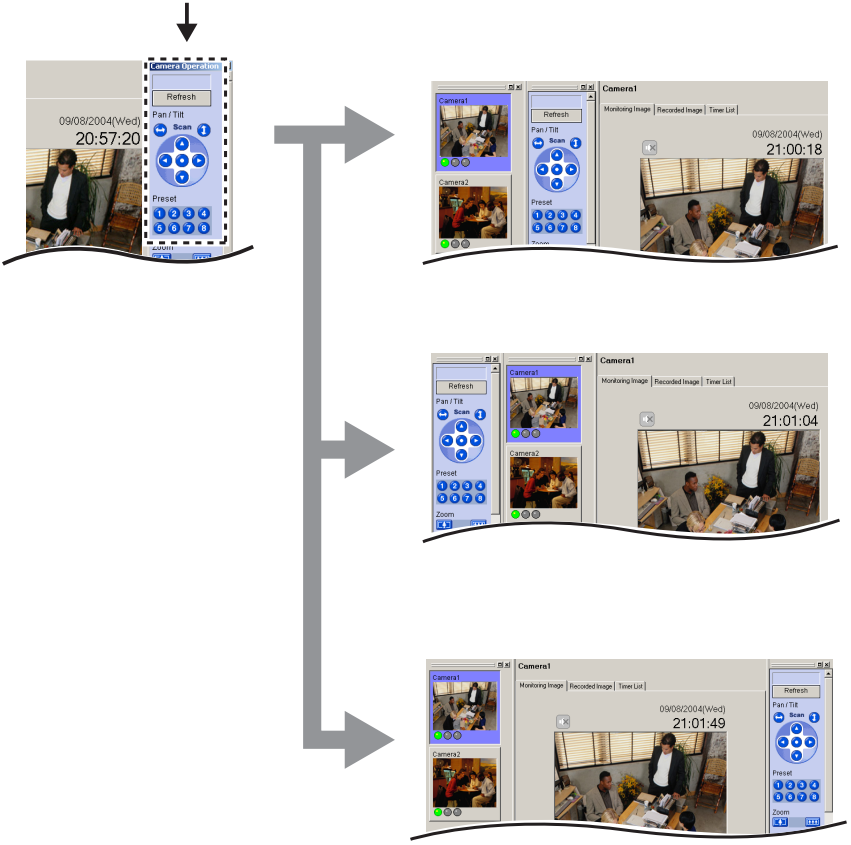


E.g. Changing the layout moving the operation bar

You can move the location by dragging.



The window is embedded by dragging on the page.

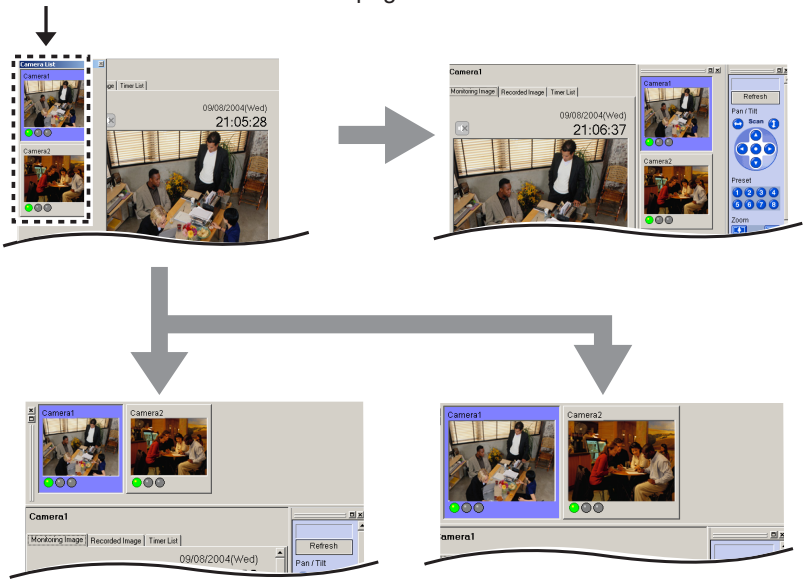


Note

If you move the window while pressing [Ctrl] on the keyboard, the window is located as an independent window.

E.g. Changing the layout moving the camera list

The window is embedded on the page.



- The camera list enables you to simultaneously monitor multiple cameras, and to view the camera in a larger size (see page 66).

Note

If you move the window while pressing [Ctrl] on the keyboard, the window is located as an independent window.

Menu Bar

- **File**
  - Exit — Close this software.
- **Edit**
  - Copy — Copy the image onto clipboard.
  - Search... — Display search page of recorded images.
- **View**
  - Display Mode — Select image display mode.
  - Image Size on Camera List — Select camera preview size.
  - Toolbar — Select camera move on the toolbar, display mode, recording button display.
  - Window — Display or hide camera list, operation bar or recorded image list.
  - Status Bar — Display or hide status bar.
- **Camera**
  - Create New Camera... — Register new camera.
  - Edit Current Camera... — Edit camera information.
  - Previous Camera — Display previous camera image.
  - Next Camera — Display next camera image.
  - Enable or Disable Camera — Enable or disable cameras.
  - Delete... — Delete registered camera.
- **Record**
  - Start Recording — Start recording.
  - Start Motion Detection Recording — Start motion detection recording.
  - Stop Recording — Stop recording.
- **Playback**
  - Start — Play recorded images.
  - Pause — Pause playback.
  - Stop — Stop playback.
  - To Next Image — Display a next image from displayed image.
  - To Previous Image — Display a previous image from displayed image.

Recorded Images

Refresh	Display latest recorded image list.
Edit Keyword...	Edit keyword of recorded images.
Delete...	Delete selected recorded images.

Timer

Create New Timer...	Create new timer.
Edit Current Timer...	Edit timer registration information.
Enable or Disable Timer	Enable or disable timers.
Delete...	Delete selected timers.

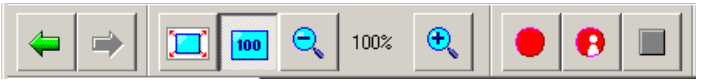
Tools

JPEG Conversion	Convert recorded image to JPEG file.
Import Camera Settings...	Import camera setting information.
Export Camera Settings...	Export camera setting information to a file.
Preferences...	Open preference page (Destination, Backup and Network Connection page).

Help

License Registration...	Open license registration page.
Open Operating Instructions	Open operating instructions pdf file.
Camera Portal Site	Open camera top page.
Download	Open download website.
Support Information	Open support information website for this software.
About Network Camera Recorder	Open version information page of this software.

Toolbar Buttons



Selects a previous camera from the current camera.

Selects a next camera from the current camera.

Fits the image to the window.

Shrinks the image by 25 % (minimum 25 % of the actual size).

100% Displays a scale.

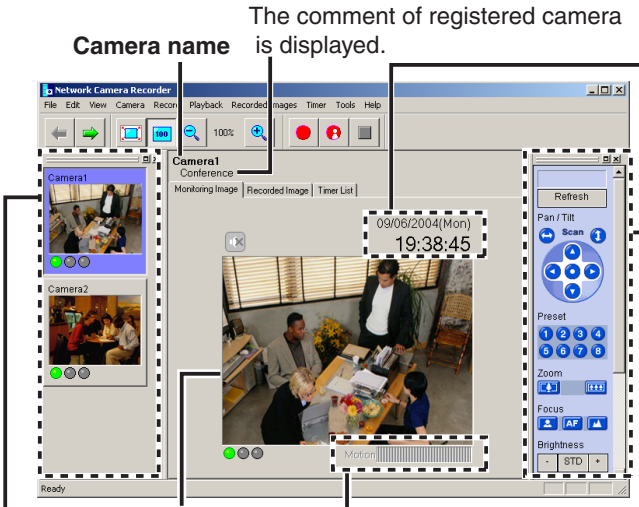
Expands the image by 25 % (maximum 700 % of the actual size).

Starts recording.

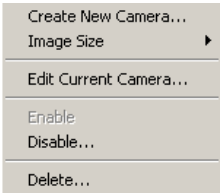
Starts motion detection recording.

Stops recording.

2.5.1 Monitoring Page



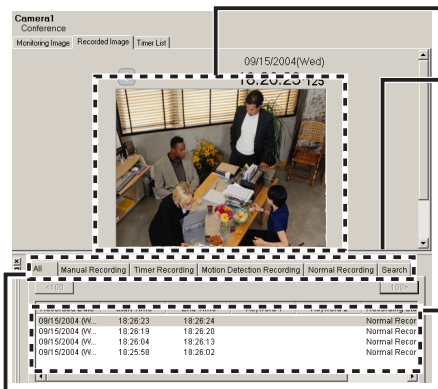
Camera List (see page 66)
The registered cameras are listed. Right-clicking the image displays menus.



Motion Detection Bar (see page 55)
The bar is displayed when the motion detection starts. The threshold of the motion detection recording is displayed.

2.5.2 Recorded Image Page

The recorded image page displays recorded image list of the selected cameras and plays recorded images.



The screen size can be changed by dragging the frame where the cursor is changed to ↕.

Playback Screen (see page 59)
Displays the images selected on the recorded images.

Recorded Image List (see page 59)
Lists the recorded images.

Recording Method Selection Tab

- The recorded images are displayed in a group of recording method.
- Clicking [Search] displays a search page.

Search Page (see page 63)
Searches the recorded images. The result is shown on the search tab page.

Search Tab Page

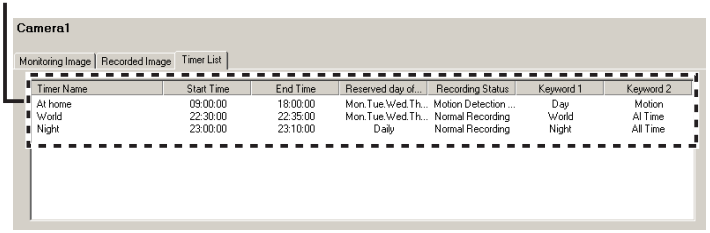
Note

Clicking on the upper side of the search page displays the page on another window.

2.5.3 Timer List Page

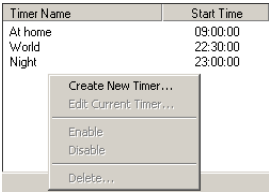
Timer List

List the set timers.

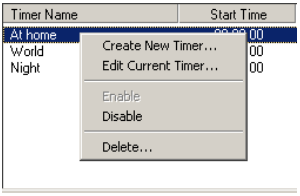


You can set, change, enable/disable or delete timer on the timer list page (see page 58).

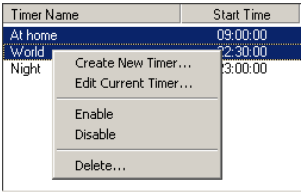
- Right-click the timer list to display the menu.



- Select the timer name, and right-click it to display the menu.



- Select the multiple timer names, and right-click them to display the menu.



2.6 Monitoring the Camera

2.6.1 Monitoring the Camera

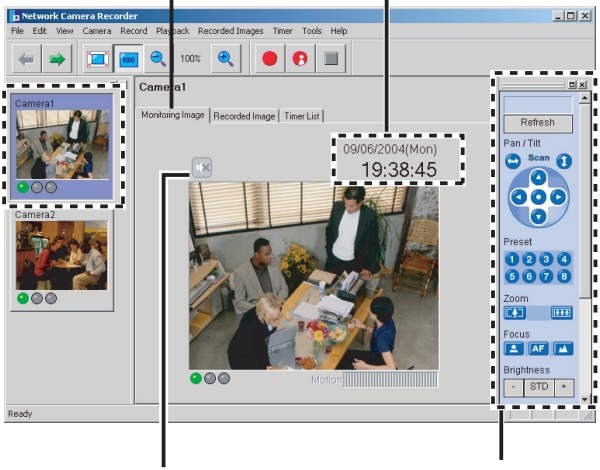
1. Select a camera preview on the camera list.

- Selected camera image is displayed on the monitoring page.

Clicking [Monitoring] tab displays the monitoring page.

Selected camera is displayed in a blue frame.

Your PC's date and time settings are displayed.



is displayed if the camera supports audio.

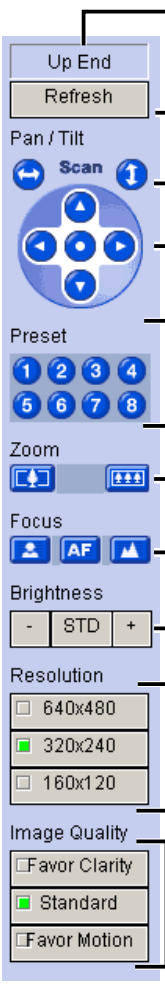
You can operate the camera (see page 49).

Notes

- Sometimes Audio may be interrupted, or image may be paused.
- Camera preview size can be changed (see page 66).
- Page layout can be changed (see page 39 to page 41).
- If you monitor the camera with audio feature, audio may be interrupted due to your PC performance or network environment. In this case, lower the max. bandwidth setting on the Network page of the camera.
- If the camera is set to display a static image, the monitoring page displays a blue screen.

2.6.2 Using Operation Bar

You can operate camera on the monitoring page. If the feature is not permitted, the buttons are grayed out.



Preset Display: When clicking a preset button, the preset name appears. Camera operation information is also displayed.

Refresh: The latest registered buttons are displayed (see page 52).

Pan/Tilt Scan*1: Moves the lens throughout the horizontal ( ) or vertical ( ) range, and returns to the original position.

Pan/Tilt/Home Position*1 Controls lens direction.

Pan (: Left, : Right), Tilt (: Up, : Down) and Home Position (: Center)

Preset Button*1: Applies the camera direction to a preset position.

Zoom*1 Zooms in or out (see page 50).

Tele , Wide

Focus*1 Focuses the image (see page 51).

Near , Auto , Far

Brightness*1: Changes brightness in nine steps including [STD] (Standard). Clicking [-] or [+] changes the image brightness.

Resolution*1: Selects [640 x 480], [320 x 240] (default) or [160 x 120] pixels.

Image Quality*1: Selects the image quality.

- [Favor Clarity] optimizes the image for good clarity.
- [Standard] keeps the standard quality. (default)
- [Favor Motion] optimizes the image for motion display.

*1 If the camera disables their controls, you cannot control their features.

Zooming in and out (Cameras available for the zooming in and out function)

Clicking tele button zooms in (maximum 42x[*1]), clicking wide button zooms out. The camera zooms in or out at a regular rate.

[*1] Optical zoom is 21x and digital zoom is 2x.

Focusing
(Cameras available for the focusing function)

The camera has automatic or manual focusing features.

- **Automatic Focus**

  Click button. It is recommended to use automatic focus. You can return to automatic focus from manual focus clicking button.

- **Manual Focus**

  Clicking or sets the camera to manual focus.

  - button moves the pint closer to the camera.

  - button moves the pint further from the camera.

2.6.3 Using Preset Buttons

The camera preset buttons can be used. Clicking home position or preset buttons (1-8) changes position to registered position.

Registered buttons are displayed blue.
Unregistered buttons are displayed gray.

1. Click the preset number.

- Preset name is displayed in the upper side.

Note

If the preset button is changed while this software is being used, the change is not reflected on this software. Clicking [Refresh] displays the latest preset buttons.

2.7 Recording the Image

2.7.1 Manually Recording the Image

This software allows you to manually record images. Set the image settings on the camera information page (see page 33).

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Click .
   - Selected camera is recorded.
   - To stop recording, click .
   - is displayed during recording (see page 66). (Left: Green, Center: Red)
   - You can select [Start Recording] or [Stop Recording] on the record menu bar.
   - You can record multiple cameras simultaneously.

Notes

- If you select multiple cameras, select cameras while pressing [Ctrl] on the keyboard.
- File sizes of recorded images listed below can be used as a baseline. (1 frame size)

Resolution	Items	Favor Clarity	Standard	Favor Motion
640 x 480	File Size	About 50 KB	About 33 KB	About 20 KB
320 x 240	File Size	About 25 KB	About 16 KB	About 8 KB
160 x 120	File Size	About 7 KB	About 5 KB	About 3 KB

- Recorded capacity can be calculated by
  Size (KB) x Frame Rate (frames per second) x time (second).

  E.g.

  640 x 480 resolution, Favor Clarity and 12 frames per second for an hour settings

  50 (KB) x 12 (fps) x 3,600 (s) = 2,160,000 (About 2.06 GB)

  If the audio is attached, add 4 KB per second.

  2,160,000 (KB) + 4 (KB) x 3,600 (s) = 2,174,400 (About 2.08 GB)
- The setting change on operation bar is not reflected to recording. If you change resolution or image quality of recorded images, change the settings on the image settings page (see page 33).
- To stop recording, always click button, or select [Record]→[Stop Recording]. If you close the operation window, recording program does not stop. If icon is displayed on the system tray, the recording program is always working (see page 17).
- If network is disconnected during recording, recording is paused. When network is connected, recording starts again.

2.7.2 Motion Detection Recording

Record images when the motion is detected on the screen. Set the motion detection settings on the motion detection page (see page 35).

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Click .
   - Selected camera is recorded.
   - To stop recording, click .
   - is displayed during motion detection recording (see page 66). (Left: Green, Center: Red, Right: Red)
   - You can select [Start Motion Detection Recording] or [Stop Recording] on the record menu bar.
   - You can record multiple cameras simultaneously.

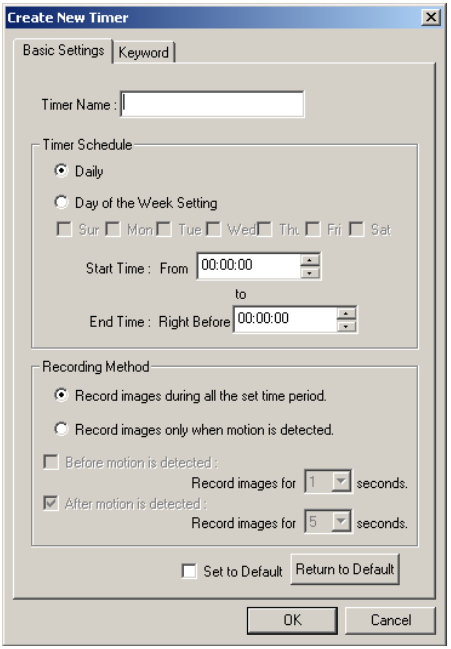
Notes

- If you select multiple cameras, select cameras while pressing [Ctrl] on the keyboard.
- You can record images before or after the motion is detected. Motion detection level is changed depending on resolution, image quality, object situation and network environment. Confirm the level by performing motion detection recording to assure the intended operation is realized (see page 35).
- To stop motion detection recording, always click button, or select [Record]→[Stop Motion Detection Recording]. If you close the operation window, recording program does not stop. If icon is displayed on the system tray, the recording program is always working (see page 17).

2.7.3 Timer Recording

You can specify the day of the week and period of time for recording.

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Select [Timer]→[Create New Timer] on the menu bar.
   - The create new timer page is displayed.
   - Click [Create New Timer] on the menu displayed by right-clicking the timer list page (see page 47).



3. Set the parameters, and click [OK].
   - The timer is displayed on the timer list page (see page 47).

Items	Descriptions
Basic Settings	
Timer Name	Enter a timer name (mandatory). The timer name is displayed on the timer list page.

Items	Descriptions
Timer Schedule	To set a timer, set start time, end time and the day of the week. • Checking [Daily] sets the daily timer recording during the specified time period. • If you set the day of the week, check [Day of the Week Setting] and specify the day or multiple days of the week. If the day of the week is not checked, the timer recording is not set. • If you record images all day, set the same time at start time and end time.
Recording Method	Select timer recording or motion detection recording. • If you select motion detection recording, time period before or after detection can be set. If you do not set it, this software records an image only at motion detection.
Keyword	
Keyword 1/Keyword 2	You can search recorded images for each timer by keyword.

- If you change default by checking [Set to Default] and clicking [OK], the current settings become as a default.
- If you click [Return to Default], the settings return to a default.

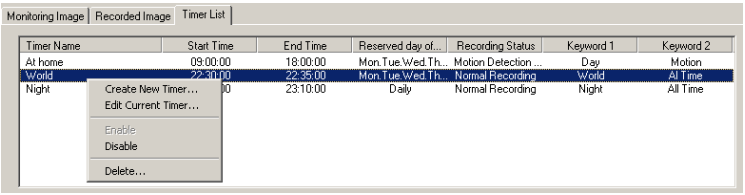
Notes

- If you click Record Stop button during timer recording, timer recording is not canceled. To cancel it, disable the timer on the timer list page (see page 58).
- If you record images all day, the image is recorded from the start time to end time. If you set time period over midnight, the image is divided into 2 images at midnight.
- 10 timers can be set for each camera.
- If you close the operation window, recording program does not stop. If icon is displayed on the system tray, the recording program is always working (see page 17).

- If network is disconnected during recording, recording is paused with the indictor on (see page 66). When network is connected, recording starts again.

Editing Timer Settings

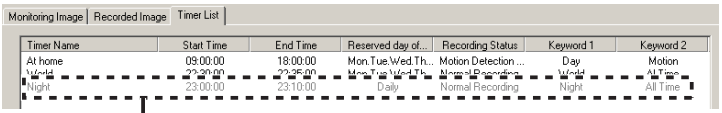
1. Select a camera preview on the camera list, and select the timer to change.
2. Change parameters at [Timer]→on the menu bar.
   - See page 56 for details about parameters.
   - Click [Edit Current Camera] or double-click the timer to display the setting page.



Enabling, Disabling or Deleting Timers

If you create a timer, the timer is enabled. The timer menu bar enables you to enable, disable or delete timers.

- Timer recording is available only when the timer is enabled. The disabled timer is not working.
- You can enable, disable or delete timers by right-clicking the timer list page.
- The disabled timer is grayed out.



If you disable the timer, the timer is grayed out.

2.8 Playing the Recorded Images

2.8.1 Playing the Recorded Images

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Select recorded images to play on the recorded image list.
   - The selected recorded image is displayed on the screen.

The screen size can be changed by dragging the frame where the cursor is changed to ↕.

Camera name is displayed to play the recorded images.

Screen

If the number of recorded images exceeds 100, [<100] and [100>] are displayed. The image before or after 100th can be displayed.

Recorded Image List
Select the image to play.

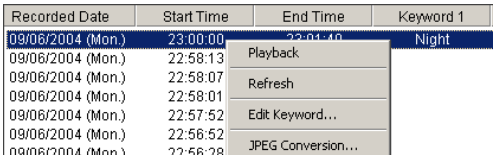
Page Selection Tab
Recorded images are listed by the recording method.

All:	Displays all recorded images.
Manual Recording:	Displays manually-recorded images.
Timer Recording:	Displays timer-recorded images.
Motion Detection Recording:	Displays recorded images of motion detection recording.
Normal Recording:	Displays recorded images during all time.

Clicking displays the page on another window.

Note

If you click [Refresh] on the menu displayed by right-clicking the recorded image list, the recorded image list is refreshed.



3. Play recorded images on the screen.

If the camera does not support audio, is displayed.

Displays the recorded date and time. Time is displayed with a millisecond.

Screen

Jump Button
Displays the time period button by 1 hour. Clicking the time period displays recorded images from that time on.

Displays the next image.

Display a previous image from the displayed image.

Slider Bar
The playback position can be set dragging the bar.

Plays images.

Stops playing images.

Pauses playback. The button is changed to during pause.

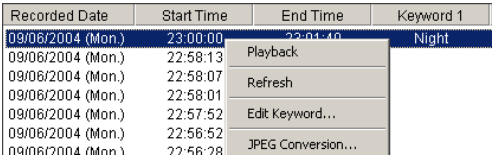
- To start playing again, click .

Notes

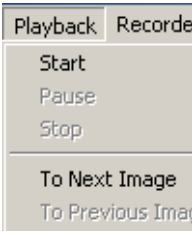
- Sometimes Audio may be interrupted, or image may be paused.
- If you monitor the camera with audio feature, audio may be interrupted due to your PC performance or network environment. In this case, lower the max. bandwidth setting on the Network page of the camera.
- If you minimize the application during playback, playback will be paused, and if you change the page to the monitoring, recorded image or timer list page, playback will be stopped.

Recorded images can be played in the following ways

- Double-clicking the recorded image.
- Select [Playback] on the menu displayed by right-clicking the recorded image list.



- Select [Playback]→[Start] on the menu bar.



Note

Pause, Stop, Next image or Previous image can be operated on the menu bar.

Speed and volume can be adjusted in the following ways.

Adjust the slider bar displayed by right-clicking volume button. If the camera does not support audio, the button is not displayed.

Adjust the slider bar displayed by right-clicking playback button.

Notes

- The changed playback speed is disabled by selecting another camera preview or closing this software.
- Audio cannot be adjusted. Audio can be played only at the medium speed (default).

2.8.2 Searching the Recorded Images

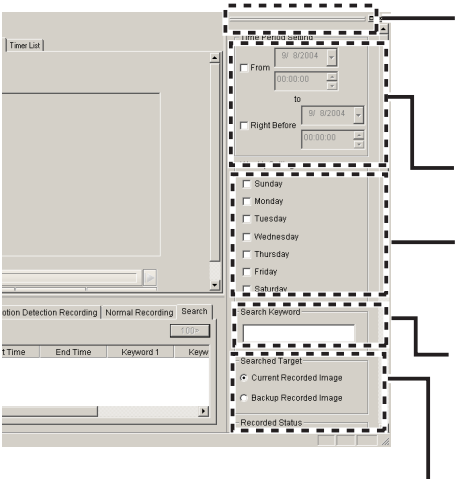
You can search images by using recorded time or keyword.

1. Select a camera preview on the camera list.

- Selected camera is displayed in a blue frame (see page 66).

2. Select [Edit]→[Search] on the menu bar.

- Clicking [Search] tab displays the search page.
- The search page is displayed.



Double-clicking or clicking displays the search page on another window.

Specifies the time period to search images (see page 65).

Specifies the day of the week.

- To search in the day of the week, check it.

Specifies the keyword you set.

Specifies searching folder, recording status and recording method.

Searched Target : Select destination folder or backup folder to search images.

Recorded Status : Select recording status from all, normal recording*1 or motion detection recording*2.

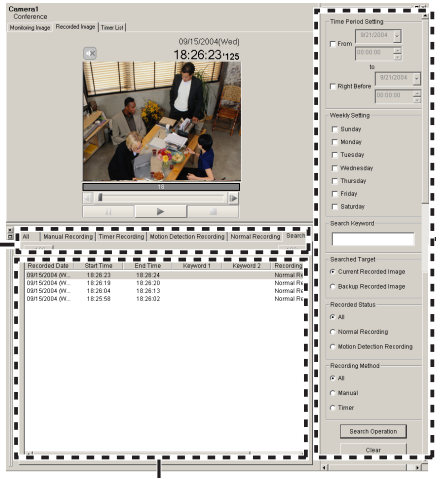
Recording Method : Select recording method from all, manual, or timer.

*1: Normal recording means the images recorded by button or recorded all the set time period by timer recording.

*2: Motion detection recording means the images recorded by button or recorded only when motion is detected by timer recording.

3. Set search conditions, and click [Search Operation].

- The search result is displayed.



The search condition is displayed.

If the number of recorded images exceeds 100, [<100] and [100>] are displayed. The image before or after 100th can be displayed.

The search result is displayed.

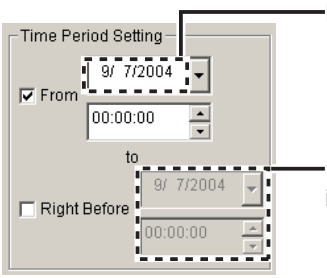
Notes

- If you set the time period, this software search images by the condition including the time period.
- Conditions are added like A and B. For example, if you set [Tuesday] and [Current Recorded Image], this software searches images recorded on Tuesday.
- Clicking Clear deletes all search results.
- Searched images can be played on the screen (see page 59).
- The images that are being backed up cannot be the target for the search.

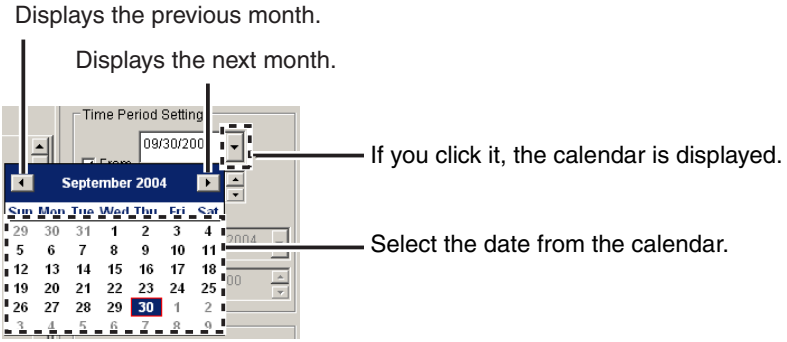
Search Time Period

To specify the search time period, check the box and specify the time period. Time period can be set by directly entering date and time or selecting it from the calendar.

Entering Date and Time



Selecting Date and Time from Calendar


Displays the previous month.
Displays the next month.
Time Period Setting
09/30/200
September 2004
Sun Mon Tue Wed Thu Fri Sat
29 30 31 1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 1 2
If you click it, the calendar is displayed.
Select the date from the calendar.

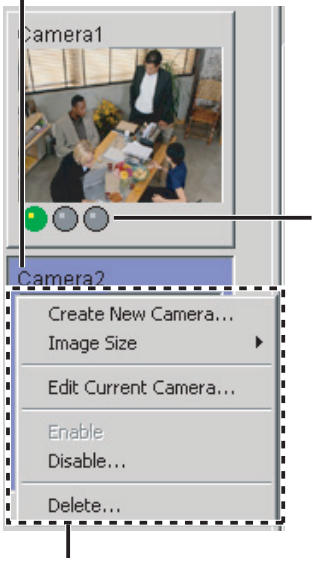
Note

Second cannot be set in the time period.

2.9 Using Camera List

The camera list displays registered camera previews.

The selected camera is displayed in a blue frame.
If you select multiple cameras, select them while pressing [Ctrl] key on the keyboard.



The image of the selected camera is displayed on the monitoring page.

Indicator

: Monitoring
(Left: Green)

: Recording
(Left: Green, Center: Red)

: Motion detection recording
(Left: Green, Center and Right: Red)

: Stand-by state for motion detection recording
(Left: Green, Right: Red)

If you select a camera preview and right-click it, menu is displayed. The camera can be set from the menu.

Create New Camera : Displays the create new camera page (see page 30).

Image Size : Changes camera preview sizes (320 x 240, 240 x 180, 160 x 120, 120 x 90 (default), 80 x 60, 60 x 45)

Edit Current Camera : Displays the camera information page (see page 38).

Enable : Enables cameras.

Disable : Disables cameras.

Delete : Deletes cameras.

Notes

- Double-clicking or clicking displays the camera list on another window (see page 39).
- If the camera is not operated for 15 seconds, the indicator of monitoring turns off.

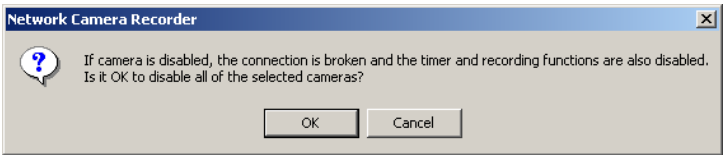
2.10 Enabling or Disabling the Cameras

You can enable or disable cameras.

1. Select the camera to enable or disable, and select [Enable] or [Disable] on the menu bar [Camera]→[Enable or Disable Cameras].
   - You can enable or disable cameras from the menu displayed by right-clicking camera list (see page 66).
   - You can enable or disable multiple cameras.
   - If you select multiple cameras, select cameras while pressing [Ctrl] key on the keyboard.

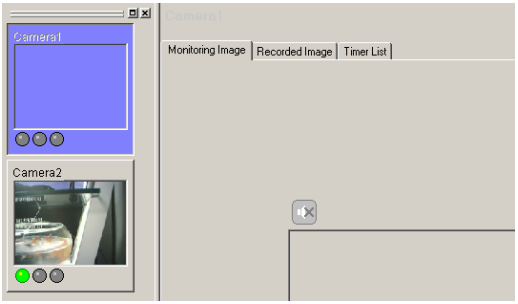
To Disable Cameras

- The following window is displayed. Click [OK] to disable it.


Network Camera Recorder
If camera is disabled, the connection is broken and the timer and recording functions are also disabled.
Is it OK to disable all of the selected cameras?
OK
Cancel

- If you disable the camera, the monitoring page is not displayed. Manual recording and timer recording cannot be operated.

  Disabling the "Camera01" camera



Notes

- You can play images recorded by the disabled cameras.
- If you disable the camera, manual recording and timer recording is stopped. If you enable the camera, timer recording starts again.

2.11 Deleting the Registered Cameras

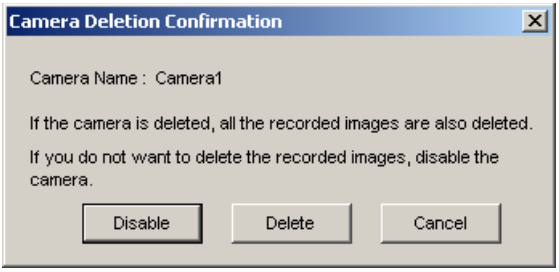
You can delete registered cameras.

Note

If you delete cameras, the recorded images are deleted with the cameras.
If you keep recorded images, disable the cameras (see page 68).

1. Select the camera to delete, and select [Camera]→[Delete] on the menu bar.

- You can delete cameras from the menu displayed by right-clicking camera list (see page 66).
- You can delete multiple cameras.
- If you select multiple cameras, select cameras while pressing [Ctrl] key on the keyboard.
- Confirmation window is displayed.


Camera Deletion Confirmation
Camera Name : Camera1
If the camera is deleted, all the recorded images are also deleted.
If you do not want to delete the recorded images, disable the camera.
Disable
Delete
Cancel

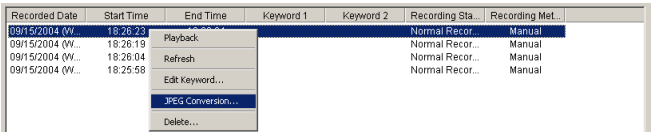
2. Click [Delete].

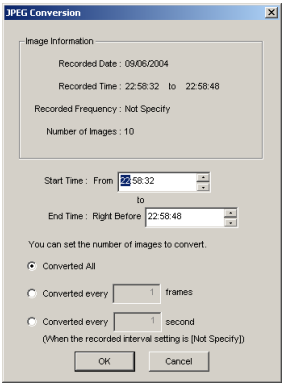
- The camera and recorded images are deleted.
- Clicking [Disable] disables the camera (see page 68).

2.12 Converting the Recorded Images

2.12.1 Converting the Recorded Images to JPEG files

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Select recorded images to convert to JPEG files on the recorded image page.
   - The selected recorded image is displayed on the screen.
3. Select [Tools]→[JPEG Conversion] on the menu bar.
   - You can select [JPEG Conversion] from the menu displayed by right-clicking the recorded image list.

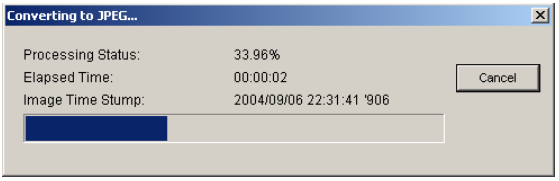



JPEG Conversion
Image Information
Recorded Date : 09/06/2004
Recorded Time : 22:58:32 to 22:58:48
Recorded Frequency : Not Specify
Number of Images : 10
Start Time : From 22:58:32
to
End Time : Right Before 22:58:48
You can set the number of images to convert.
Converted All
Converted every 1 frames
Converted every 1 second
(When the recorded interval setting is [Not Specify])
OK
Cancel

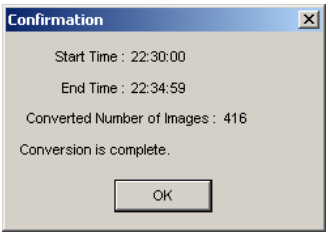
4. Specify the start time and end time.
5. Set the interval to convert.
6. Click [OK].
   - The folder selection window is displayed (see page 25).

7. Select the location, and click [OK].

- JPEG conversion is started.



- If JPEG conversion is complete, the following window is displayed.



- JPEG-converted images are saved into the created folder in the location. The folder is created for each 1,000 images.

Notes

- If you do not set the time, all selected images are converted to JPEG files.
- If it is canceled, images are saved till it is canceled.

2.13 Other Features

2.13.1 Importing the Camera Information

This software can import the camera information. The camera information can be imported to this software on another PC.

1. Select [Tools]→[Import Camera Settings] on the menu bar.
   - The import file selection window is displayed.
   - To import the camera information from BB-HNP60, select [BB-HNP60 Camera Definition File] at the file type. To import from this software, select [Camera Definition File].
2. Select a file and click [Open].
   - The camera information is imported.

Notes

- This software can import camera information from BB-HNP60 or this software.

  This software: All camera information can be imported.
  BB-HNP60: Basic settings and image settings can be imported. BB-HNP60 setting information file is saved in the destination folder.

- Setting information cannot be imported if you cannot access the target camera for the setting information.

2.13.2 Exporting the Camera Information

This software can export the camera information. The camera information can be exported for this software on another PC.

1. Select [Tools]→[Export Camera Settings] on the menu bar.
   - The export file save window is displayed.
2. Select the location, and click [Save].
   - The camera information is exported.

2.13.3 Copying the Recorded Images

This software can copy the monitoring image to the clipboard.

1. Right-click the image on the monitoring page.
   - The copy menu is displayed.
2. Click [Copy].
   - This software copies the image to the clipboard.

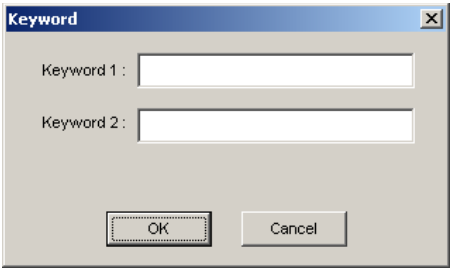
Notes

- The **clipboard** is a place to temporarily save in copying or pasting data. The copied image can be used in the program such as Paint.
- You can copy the image by selecting [Edit]→[Copy] on the menu bar.

2.13.4 Changing the Keyword of the Recorded Images

You can change the keyword set to the recorded images.

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Select an image to change the keyword on the recorded image page.
3. Select [Recorded Images]→[Edit Keyword] on the menu bar.
   - You can select [Edit Keyword] from the menu displayed by right-clicking recorded image.
   - The keyword change window is displayed.



4. Change the keyword, and click [OK].
   - The keyword is changed.

2.13.5 Deleting the Recorded Images

1. Select a camera preview on the camera list.
   - Selected camera is displayed in a blue frame (see page 66).
2. Select the recorded images to delete on the recorded image page.
   - You can select multiple images.
3. Select [Recorded Images]→[Delete] on the menu bar.
   - You can select [Delete] on the menu displayed by right-clicking the recorded image.
   - The confirmation window is displayed.

4. Click [OK].
   - The selected images are deleted.

Note

This software can delete 100 images at a time. If images to delete exceeds 100, repeat the deletion.

2.14 Error Message List

Message	Cause and Remedy
Basic Setting	
Enter "Camera Name".	• The Camera Name space was blank. → Follow the instruction message.
Enter "Camera Address".	• The Camera Address space was blank. → Follow the instruction message.
"Port" should be between 1 and 65535.	• A number not between 1 and 65535 was entered in the Port blank. → Follow the instruction message.
"Camera Name" should be 250 characters or less.	• The Camera Name was more than 250 characters. → Follow the instruction message.
"Comment" should be 128 characters or less.	• The Comment was more than 128 characters. → Follow the instruction message.
Image Settings	
Specify Recorded Frequency and Sound Recording cannot be selected simultaneously. Either set Recorded Frequency to [Not Specify] or set the recording settings to [Image Only].	• Image settings are set to [Recorded Frequency Specify], and [Audio and Image] are selected simultaneously. Or if another tab or OK is pressed in this state. → Follow the instruction message.
Recording Capacity	
Enter "Recording Capacity".	• The Recording Capacity space was blank. → Follow the instruction message.
"Recording Capacity" should be between 100 and 500000.	• A number not between 100 and 50000 was entered in the Recording Capacity blank. → Follow the instruction message.

Message	Cause and Remedy
Keyword	
"Keyword 1" should be 40 characters or less.	• Keyword 1 was more than 40 characters. → Follow the instruction message.
"Keyword 2" should be 40 characters or less.	• Keyword 2 was more than 40 characters. → Follow the instruction message.

Message	Cause and Remedy
Parameter Error	
An error has occurred in the "XXXX" parameter in "Create New Camera (Camera Registration Information)". Try again. "XXXX" = • Camera ID • Camera Name • Comment • Camera Address • Camera Address Port • User Name • Password • Using Proxy • Resolution • Image Quality • Recorded Frequency • Audio Recording Settings • Limit the Recording Capacity • Recording Capacity • Motion when Reaching the Recording Capacity • Recording Flag before Motion Detection • Number of Seconds before Motion Detection • Recording Flag after Motion Detection • Number of Seconds after Motion Detection • Sensitivity • Threshold • Keyword 1 • Keyword 2 • Camera Type	• This is a software error. → If same error message appears after trying again, restart your PC.

Timer Setting

Message	Cause and Remedy
Basic Setting	
Enter "Timer Name".	• Timer Name space was blank. → Follow the instruction message.
Select a day of the week.	• There is a check in the Day Specification Radio Button but no check in any of the Day Buttons. → One day or more must be selected.
"Timer Name" should be 24 characters or less.	• Timer Name was more than 24 characters. → Follow the instruction message.
Keyword	
"Keyword 1" should be 40 characters or less.	• Keyword 1 was more than 40 characters. → Follow the instruction message.
"Keyword 2" should be 40 characters or less.	• Keyword 2 was more than 40 characters. → Follow the instruction message.

Message	Cause and Remedy
Parameter Error	
An error has occurred in the "XXXX" parameter in "Create New Timer (Timer Registration Information)". Try again. "XXXX" = • Camera ID • Timer ID • Timer Name • Daily/Weekly Setting • Day of the Week • Start Time • End Time • Recording Method • Recording Flag before Motion Detection • Number of Seconds before Motion Detection • Recording Flag after Motion Detection • Number of Seconds after Motion Detection • Keyword 1 • Keyword 2	• This is a software error. → Check that the correct information is inputted into each error heading.

Preferences

Message	Cause and Remedy
Destination	
Enter "Minimum Free Disk Space".	• Hard Disk Capacity space was blank. → Follow the instruction message.
"Minimum Free Disk Space" should be between 100 and 50000.	• A number not between 100 and 50000 was entered in the Hard Disk Capacity blank. → Follow the instruction message.

Message	Cause and Remedy
"Minimum Free Disk Space" should be less than the current free space (*** MB).	• The free space on the disk is larger than the free space on the drive. → Follow the instruction message.
Select "Save Destination Folder".	• Save Destination Folder Path space was blank. → Follow the instruction message.
Backup	
Enter "Minimum Free Disk Space".	• Minimum Free Disk Space field was blank. → Follow the instruction message.
"Minimum Free Disk Space" should be between 100 and 50000.	• A number not between 100 and 50000 was entered in the Minimum Free Disk Space blank. → Follow the instruction message.
"Minimum Free Disk Space" should be less than the current free space (XXX MB).	• The free space on the disk is larger than the free space on the drive. → Follow the instruction message.
Select "Backup Folder".	• The Backup Destination Folder Path space was blank. → Follow the instruction message.
Network	
Enter "Proxy Server Address".	• [Use a proxy server] is checked and the Address space was blank. → Follow the instruction message.
"Port" should be between 1 and 65535.	• A number not between 1 and 65535 was entered in the Port blank. → Follow the instruction message.

Message	Cause and Remedy
Parameter Error	
A "XXXX" error has occurred in "Preferences". Try again. "XXXX" = • Save Destination Folder • Save Destination Free Disk Space • Perform Automatic Backup • Backup Folder • Backup Destination Free Disk Space • Backup Execution Time • Backup Period • Backup Day of the Week • Backup Date • Using a Proxy Server • Proxy Server Address • Proxy Server Address Port • Proxy User Name • Proxy Password	• This is a software error. → If same error message appears after trying again, restart your PC.

Search

Message	Cause and Remedy
"Search Keyword" should be 40 characters or less.	• If Search Keyword was more than 40 characters. → Follow the instruction message.
Set the "Start Date and Time" so that it comes before the End Date and Time.	• If Start Date and Time comes after the End Date and Time. → Follow the instruction message.

Message	Cause and Remedy
Parameter Error	
An error has occurred in the "XXXX" parameter in "Search Recorded Image List". Try again. "XXXX" = • Camera ID • Number of Search Results • Search Start Number • Search Topic • Recording Status • Recording Type • Start Date and Time • End Date and Time • Day Specification • Keyword • Folder Specification	• This is a software error. → If same error message appears after trying again, restart your PC.

Keyword Change

Message	Cause and Remedy
"Keyword 1" should be 40 characters or less.	• Keyword 1 was more than 40 characters. → Follow the instruction message.
"Keyword 2" should be 40 characters or less.	• Keyword 2 was more than 40 characters. → Follow the instruction message.

Message	Cause and Remedy
Parameter Error	
An error has occurred in the "XXXX" parameter in "Edit Keyword". Try again. "XXXX" = • Camera ID • Recorded Image ID • Recorded Image Save Destination • Keyword 1 • Keyword 2	• This is a software error. → If same error message appears after trying again, restart your PC.

License Registration

Message	Cause and Remedy
Enter "Registration Code".	• Registration Code space was blank. → Follow the instruction message.
Enter "License Key".	• License Key space was blank. → Follow the instruction message.
An error has occurred in the "XXXX" parameter in "License Registration". Try again. "XXXX" = • Registration Code • License Key	• This is a software error. → If same error message appears after trying again, restart your PC.

JPEG Conversion

Message	Cause and Remedy
"Start Time" should be within the recording time.	• The start time is not within the recording time. → Follow the instruction message.
Set the "Start Time" so that it comes before the End Time.	• The start time comes after the end time. → Follow the instruction message.
Set the "End Time" to within the recording time.	• The end time is not within the recording time. → Follow the instruction message.
"Conversion Interval" should be between 1 and (the number of images - 1).	• The frequency is not between 1 and (end time - start time [seconds]), or the space was blank. → Follow the instruction message.
"Conversion Interval" should be between 1 and (end time - start time [seconds]).	• The number is larger than the time period between the start time and end time. → Follow the instruction message.
"Conversion Interval" should be between 1 and 3600.	• The image is recorded for more than 1 hour, but the converted interval is not between 1 and 3600. → Follow the instruction message.
The conversion file is possibly being used in another application. Confirm that it is not being used and try again.	• The converted file has been opened in another application. → Close other applications and try again.
The recorded images could not be found. Refresh the Recorded Image List and try again.	• There is no recorded images. → Refresh the recorded images and try again.
A write error has occurred.	• An error has occurred in JPEG conversion.

Other Errors

Message	Cause and Remedy
Recording cannot be started because "XXXX" has reached its recording capacity. Delete unnecessary images in order to start recording. "XXXX" = • Camera Name	• The capacity has reached the recording capacity limit. → Delete unnecessary images, or change the settings of recording capacity limit.
Recording cannot be started because "XXXX" has disabled the camera. Enable the camera in order to start recording. "XXXX" = • Camera Name	• The camera is disabled. (The disabled camera cannot be recorded.) → Follow the instruction message.
Software Startup failed. Restart this software. If situation does not improve after restarting the software, restart your PC.	• This software fails to start the ncrcore.exe file. → Restart your PC.
An internal communication error has occurred. Restart this software. If situation does not improve after restarting the software, restart your PC.	• The ncrcore.exe file is not started, or this software cannot open the ncrcore.exe file. → Restart your PC.
If camera is disabled, the connection is broken and the timer and recording functions are also disabled. Is it OK to disable all the selected camera?	• The camera is disabled. → Follow the instruction message.
Connection to the camera cannot be confirmed. The Address, Port Number or Proxy settings may be incorrect. Are you sure you want to save?	• The camera cannot be accessed. → Follow the instruction message.

Message	Cause and Remedy
Camera could not be authenticated. Check the User Name and Password and try again.	• This software do not pass the camera authentication. → Follow the instruction message.
The specified camera does not support audio. Change the recording settings to image only.	• The camera is not supporting audio, but the image setting is set to audio and image. → Follow the instruction message.
There is insufficient free space on the Save Destination Disk. Delete unnecessary recorded images and try again.	• The destination free disk space is insufficient. → Reduce the destination free disk capacity, or change the destination.
Is it OK to delete all the selected recorded images?	• The recorded images are deleted. → Follow the instruction message.
Recorded images in use cannot be deleted. Stop the recording and try again.	• You are deleting images during recording. → Follow the instruction message.
The recorded images could not be found. Refresh the Recorded Image List and try again.	• You manually deleted recorded images. → Follow the instruction message.
There were recorded images that could not be deleted. Try again.	• The file has been opened in another application → Close other applications and try again.
There were timers that could not be enabled. Try again.	• This software is malfunctioning. (This message is not normally displayed.) → Restart your PC.
There were timers that could not disabled. Try again.	• This software is malfunctioning. (This message is not normally displayed.) → Restart your PC.
Is it OK to delete all the selected timers?	• The timer is deleted. → Follow the instruction message.

Message	Cause and Remedy
There were timers that could not be deleted. Try again.	• This software is malfunctioning. (This message is not normally displayed.) → Restart your PC.
Is it OK to apply the proxy settings to all cameras?	• You checked [Use a proxy server] on the network page of the preferences. (The camera should be registered.) → Follow the instruction message.
All cameras have been set to use proxy settings.	• You clicked [Yes] in the "Is it OK to apply the proxy settings to all of the cameras?" message, and the saving is complete. → Follow the instruction message.
Applying proxy settings to all cameras has failed. Apply individually.	• You clicked [Yes] in the "Is it OK to apply the proxy settings to all of the cameras?" message, but the saving is failed. → Check the [Use Proxy Server] box for each camera on the registration information change or basic settings page.
"XXXX" error occurred during importing. "XXXX" = • File Type • File Size • Memory Shortage • Open	• This software cannot import from the file at [Tools]→[Import Camera Settings]. → The file is broken.
The number of registered cameras reached the maximum of "XXX" cameras, so importing was canceled. "XXX" = • 64	• The registered cameras has reached the maximum limit during import. → Delete unnecessary cameras.
Exporting failed.	• This software cannot export to the file at [Tools]→[Export Camera Settings]. → The file is broken.
License registration is complete.	• License registration is complete.

Message	Cause and Remedy
The registration information was incorrect. Check the registration code and license key and try again.	• The registration information was incorrect. → Check the registration code and license key and try again.
To use this feature, license registration is essential. Perform license registration.	• Some features cannot be used without license registration (JPEG Conversion). → Perform license registration.
The file could not be found.	• The Operating Instructions file is not in software folders. (The file may be manually deleted.) → Install this software again.
PDF related applications could not be found. Install Adobe Reader.	• Install Adobe Reader and try again.
Connection with the proxy server could not be confirmed. The Address or Port Number settings may be incorrect. Are you sure you want to save?	• The proxy server cannot be accessed. → Check the address and port number of the proxy server.
Proxy server could not be authenticated. Check the User Name and Password, and try again.	• This software does not pass the proxy authentication. → Check the user name and password of the proxy server.
The web browser could not be started. Start the web browser and access the following URL.	• Web browser could not be started (Download, support information and camera portal site). → Install the web browser (Internet Explorer 6.0 or later).
Network Drive could not be specified in the Save Destination Folder. Specify a local drive.	• Network drives or folders on the network could not be specified as the save destination folder. → Specify a local drive.
Network Drive could not be specified in the Backup Folder. Specify a local drive.	• Network drives or folders on the network could not be specified as the backup destination folder. → Specify a local drive.

Message	Cause and Remedy
Network Drive could not be specified in the Import File. Specify a local drive.	• Network drives or folders on the network could not be specified to create an export file. → Specify a local drive.
Network Drive could not be specified in the Export File. Specify a local drive.	• Network drives or folders on the network could not be specified to create an export file. → Specify a local drive.
"Save Destination Free Disk Space" should be less than the current free space (XXX MB).	• The disk free capacity set on the preferences page is larger than the actual capacity. → Set the disk free capacity smaller than the actual capacity.
"Backup Destination Free Disk Space" should be less than the current free space (XXX MB).	• The backup disk free capacity set on the preferences page is larger than the actual capacity. → Set the disk free capacity smaller than the actual capacity.
"XXXX" cannot be accessed. "XXXX" = • Save Destination Folder • Backup Folder • JPEG Conversion Folder • Import File • Export File	• The folder or file cannot be accessed because the drive cannot be found or the path is not available. → Properly select a folder of file.
If "Set to Default" is checked, settings are returned to the state in "Create New Camera". The default registration information does not change.	• You checked [Set to Default] on the create new camera page, or image, recording capacity limit or motion detection recording settings on the camera registration information page. → Follow the instruction message.
If "Set to Default" is checked, settings are returned to the state in "Create New Timer". The default registration information does not change.	• You checked [Set to Default] on the create new timer page, or basic setting on the timer registration information page. → Follow the instruction message.

Message	Cause and Remedy
There is only XX MB of free space remaining in Save Destination Folder Disk. Either increase the free space to over 100 MB or select a disk with over 100 MB of free space.	• The save destination free space is less than 100 MB. → Follow the instruction message
There is only XX MB of free space remaining in Backup Folder Disk. Either increase the free space to over 100 MB or select a disk with over 100 MB of free space.	• The backup destination free space is less than 100 MB. → Follow the instruction message.
An error has occurred in the "XXXX" parameter in "Disable Camera". Try again. "XXXX" = • Camera ID • Disable Flag	→ If same error message appears after trying again, restart your PC.
An error has occurred in the "XXXX" parameter in "Delete Camera". Try again. "XXXX" = • Camera ID	→ If same error message appears after trying again, restart your PC.
An error has occurred in the "XXXX" parameter in "Manual Recording ON". Try again. "XXXX" = • Camera ID • Recording mode	→ If same error message appears after trying again, restart your PC.
An error has occurred in the "XXXX" parameter in "Manual Recording OFF". Try again. "XXXX" = • Camera ID	→ If same error message appears after trying again, restart your PC.

Message	Cause and Remedy
Recording has stopped because either there is insufficient free disk space or the disk cannot be written on. Confirm that there is sufficient free space on the save destination disk and that the save destination folder is in a writable condition, then try recording again.	• The destination free space has reached the limit set on the preferences page, or the save destination folder is not writable and recording is stopped. → **1.** Decrease the save destination free space. **2.** Create enough free space on the destination folder. **3.** Confirm that there is a folder. If there is not, create it. **4.** Check if the folder is writable, and set it writable.
Backing up has stopped because either there is insufficient free backup disk space or the disk cannot be written on. Confirm that there is sufficient free space on the backup destination disk and that the backup destination folder is in a writable condition, then back up again.	• The backup destination free space has reached the limit set on the preferences page, or the backup destination folder is not writable and backup is stopped. → **1.** Decrease the backup destination free space. **2.** Create enough free space on the backup destination folder. **3.** Confirm that there is a folder. If there is not, create it. **4.** Check if the folder is writable, and set it writable.
"XXXX" has reached its recording capacity, so recording has been stopped. Delete recorded images and try recording again. "XXXX" = • Camera Name	• The recorded images of the camera have reached the limit of recording capacity and recording is stopped. → Delete the recorded images of the camera, or increase the recording capacity.
When the software is shut down, the camera stops recording. Any set timers will also stop operating. Is it OK to shut down?	• Right-click and select [Exit]. → Follow the instruction message.

Message	Cause and Remedy
Backup failed.	• Folder creation error occurs during backup. → Confirm that the backup destination folder is writable. If same error message appears after trying again, restart your PC.

2.15 Troubleshooting

Problem	Cause and Remedy
The camera image is not displayed.	• The camera is not powered up. → Turn the camera on. • The camera IP address is incorrect. → Set the proper IP address at the basic settings on the camera registration information page. • The authentication is required for the camera. → Set the proper user name and password at the basic settings on the camera registration page. • Network to which your PC is connected is not working. → Confirm that the network is working. • The network is congested. → Pages may not be displayed immediately. Wait for a while. • The proxy setting is incorrect. → If the camera cannot be accessed without a proxy server, the proxy setting should be set on this software. Check [Use Proxy Server] and set the proxy settings at [Tools]→[Preferences]→[Network Connection] on the menu bar. • More than 4 installations have been connected to the camera. → The number of connections from software to the camera is limited. Up to 3 connections can be established with the camera.
"Register a license key." is displayed on the monitoring page.	• The license registration is not performed. → Perform the license registration entering registration code and license key at [Help]→[License Registration] on the menu bar.

Problem	Cause and Remedy
Timer recording is not working.	• The day of the week is not checked at the day of the week setting on the timer page. → Check the day of the week to enable timer recording. • Timer is disabled. (Timer is grayed out on the timer list.) → Select the timer on the timer list, and click [Enable] on the menu displayed by right-clicking the timer list.
You cannot pan or tilt the camera.	• Pan/tilt operation is not permitted on the camera settings. → Permit the pan/tilt operation. • The camera does not support pan/tilt operation.
This software is unstable or does not work.	• Your PC specification does not meet the requirement. → Close other applications.
The audio cannot be listened during monitoring.	• The camera does not support audio. → The camera should support audio. • Microphone is not properly connected. → Confirm that microphone is properly connected. • Volume setting on your PC is muted or set to minimum. → Adjust the volume on the volume control window on your PC. • Speaker is malfunctioning. → Confirm that the speaker is working.
Audio cannot be listened while viewing images with audio.	• [Image Only] is selected at record settings on the camera registration information page. → If [Image Only] is selected, the audio is not recorded. Select [Image and Audio] to record audio.
Audio is not synchronized with images on the monitoring page or screen.	• Audio delays 1 or 2 seconds after the image. Audio may be interrupted or the image may be paused. This is not a problem.

Problem	Cause and Remedy
You cannot change resolution or image quality.	• Resolution or image quality control is not permitted on the camera settings.

2.16 Default Setting List

Items			Default
Create New Camera/ Camera Registration Information	Basic Settings	Camera Name	-
		Comment	-
		Camera Address	-
		Port	-
		User Name	-
		Password	-
		Use a proxy server	-
	Image Settings	Resolution	320 x 240
		Image Quality	Standard
		Recorded Frequency	Not Specify
		Audio Recording Settings	Image Only
	Recording Capacity Limit	Limit the recording capacity.	-
	Motion Detection	Before motion is detected:	-
		After motion is detected:	5 seconds
	Keyword	Keyword 1	-
		Keyword 2	-
Create New Timer/Timer Registration Information	Basic Settings	Timer Name	-
		Timer Schedule	Daily
			Start Time: 00:00:00
			End Time: 00:00:00
		Recording Method	Record images during all the set time period.
	Keyword	Keyword 1	-
		Keyword 2	-

Items			Default
Recorded Images	Search	Time Period Setting	-
		Weekly Setting	-
		Search Keyword	-
		Searched Target	Current Recorded Image
		Recorded Status	All
		Recording Method	All
Preferences	Destination	Destination	C:\Program Files\Panasonic\NCR2
		Maintaining the hard disk capacity	100 MB
	Backup	Perform Automatic Backup	-
		Backup Folder	-
		Minimum Free Disk Space	-
		Backup Schedule	-
	Network Connection	Use a proxy server	-
		Proxy Address	-
		Port	-
		Proxy User Name	-
		Proxy Password	-

Index

A
Automatic Backup 26

B
Basic Settings Page 31

C
Camera List 66
CD-ROM Notice 6
Copy 73
Creating New Camera 30

D
Default Setting List 96

E
Editing Camera Information 38
Enabling or Disabling the Cameras 68
End-User License Agreement 8
Error Message List 75
Exporting the Camera Information 72

F
Focus 51

I
Image Settings Page 33
Importing the Camera Information 72
Included Accessories 6
Installation Procedure 11
Installing This Software 12

J
JPEG Conversion 70

K
Keyword 73
Keyword Page 37

L
License Registration 21

M
Manual Recording 53
Menu Bar 42
Monitoring Page 45
Motion Detection Page 35
Motion Detection Recording 55

N
Network Camera Recorder Window 39

O
Operation Bar 49

P
Preset Buttons 52
Proxy Server 28

R
Recorded Image Page 46
Recording Capacity Limit Page 34
Registering the Camera 30

S
Search Time Period 65
Searching the Recorded Images 63
Security Cautions 7
Selecting a Folder to Save Images 23
System Requirements for your PC 3

T
Timer List Page 47
Timer Recording 56
Toolbar Buttons 44
Trademarks 3
Troubleshooting 93

W
Window Display 39

Z

Zoom 50

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-272-7033 for the location of an authorized servicenter.
- This Network Camera Recorder is designed for use in the United States of America. Sale or use of this product in other countries/areas may violate local laws.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

_____

_____

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

The information in this document is subject to change without notice.

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.
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